SoundPatrol™ DP 1200/2200 & Portable Thermal Printer

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057-245 Rev. E (7/11)

Using the SoundPatrol™ DP 1200/2200 with the Portable Thermal Printer Instructions

Scope: The following instructions detail the added SoundPatrol™ with the portable thermal printer, (p/n: 057-340) (Type: FTP628). For other basic operating instructions, use this in combination with the 1200/2200 user manual, part number: 056-653.
(Manual Details: http://www.questtechnologies.com/Assets/Documents/SoundPatrol_manual.pdf)

The 1200/2200 Sound level meter includes three printouts on the portable thermal printer which includes: a calibration report, enforcement report (with summary data), and a continuous data report. Please Note: the AC/DC out functions of the connector have been disabled, and the connector is used as the serial output for the printer. Before using the printer for the first time, set the dip switches using the dip switch settings listed at the end of these instructions.

Step 1: Connect the cable. The SP Fuji cable, 057-341, is provided with the unit and printer. The 3.5 mm connector is fully inserted into the receptacle at the bottom of the SoundPatrol™. Insert the flat-style connector into the side of the thermal printer port labeled RS-232C. Note that it fits only one way and the latch release will be towards the backside of the printer. The latch release helps to secure the connector and is used when removing.

Step 2: Turn "ON" the printer and the SoundPatrol™. The printer is turned "ON" by depressing and holding the power button for about 1 second. Note: refer to the portable thermal printer manual to power on (with either AC/DC power adapter or insert Li-ion battery.) A green LED blinks when the printer is ready. Moving the center switch from the "OFF" to the "PAUSE" or "RUN" position turns ON the SoundPatrol™.

Step 3: RESETTING the SoundPatrol™. Between measurements, you must always remember to push and hold the RESET button (for more than 3 seconds), to clear out the previous integrating measurement values. NOTE: The LEQ measurement is also automatically reset whenever the RANGE, WEIGHTING, or RESPONSE switches are changed.

Step 4: (Suggested, Once daily) Calibration Report. Turn on the Calibrator. Position the calibrator and adapter over the microphone. Depress the "CAL" button on the SoundPatrol™. When the calibration has successfully completed, a complete calibration report will be printed. If there is a calibration failure, a partial report will appear, with a "NOCAL" error printed at the end. Refer to the Quest 056-653 manual for more specific calibration and setup instructions.

Calibration Report example

```
Quest SoundPatrol DP 3.3      (Heading & Version)
1200  s/n: SPE052134          (Model & Serial
Number)
  TResponse = FAST       (RESPONSE Setting)
TODAY'S CALIBRATION:          (Values with
"WEIGHTING")
   old SPL = 114.2 dBA  (old reading with
calibrator)
 Ref Level = 114.0 dBA  (Calibration set point)
   new SPL = 114.0 dBA       (new reading after
cal)
Date:_____________________
Time:_____________________
Location:_________________
By:_______________________
```

Step 5: Collect the "integrating" measurement. Select settings to match your local enforcement rules. Typical US settings may include 3 dB Exchange Rate, 50-120 dB, Slow, A-Weighted LEQ. The enforcement report is designed to show SPLmax, SPLmin, and either Lavg or Leq. These readings are generated ONLY after the unit has been placed into the "RUN" mode for at least one second. When the noise of interest is the appropriate distance from the meter, move the center switch to the "RUN" position. Allow the LEQ reading to stabilize, and then move the switch back to the "PAUSE" position.

Step 6: (Optional) Print the Enforcement Report. Depress the "PRINT/RESET" button down for about 1 second. When you release it, the printer will print the enforcement report. When the report is finished (in a few seconds), you may print more copies by pressing the "PRINT/RESET" button again for about 1 second.

Enforcement Report (with summary data) example

```
Quest SoundPatrol DP 3.3      (Heading & Version)
1200  s/n: SPE052134       (Model & Serial Number)
TResponse = FAST           (RESPONSE Setting)
   SPLmax = 90.8 dBA       (SPLmax Measurement
                           with WEIGHTING)
 Lavg er5 = 65.2 dBA       ("Lavg er5" or LEQ with
                             WEIGHTING)
   SPLmin = 43.9 dBA
 Runtime = 10 Sec.
Date:_________________
Time:_________________
Location:_____________
By:___________________
```

Step 7: (Optional) Print "Continuous" Report. When the unit is in "RUN" you can depress the "PRINT/RESET" button down for about 1 second. When you release it, the printer will print the "Continuous" report. Each second, a new line will be printed. The printout ends when the switch is moved from "RUN" to "PAUSE".

Continuous Data Report example

```
TResponse = FAST      (The header shows the Settings)
time,SPL,Lavg,ER=x,Weight=A
10, 42.1, 43.3, (Seconds, 1 Second SPL, & Lavg)
11, 42.1, 43.2,            (...)
12, 42.3, 43.1,
13, 42.1, 43.0,
14, 42.0, 42.9,
15, 42.2, 42.9,
16, 57.0, 43.5,
17, 47.2, 43.5,
Quest SoundPatrol DP 3.3
1200  s/n: SPE052134
TResponse = FAST
  SPLmax = 58.6 dBA
  Lavg er5 = 43.9 dBA
  SPLmin = 41.1 dBA
  Runtime = 19 Sec.
Date:_________________
Time:_________________
Location:_____________
By:___________________
```

Step 8: Turn "OFF" the printer and the SoundPatrol™. Depressing and holding the power button for about 3 seconds turns "OFF" the printer. The Green LED will turn off when the printer is OFF. Moving the center switch to the "OFF" position turns OFF The SoundPatrol™.

Step 9: Removing the cable. For your convenience, the 3.5 mm connector at the bottom of the SoundPatrol™ may be unplugged or re-plugged at any time. The Flat-style connector on the side of the thermal printer has a latch release that must be pushed to release the connector. Place your thumb on the backside of the printer connector, depress the release latch, and pull straight out.

Replacement Parts:

057-340	Serial Thermal Printer FTP628WSL
057-258	(5-pack) Thermal Paper 58mm x 36mm x 15m.
057-341	Sound Patrol/Fujitsu Serial Printer Cable 1m

Dip Switch Settings for thermal printer (located on side next to RS232C port):

Dip Switch	Function	Switch Setting
1	Interface Selection	SW1
	RS-232C Interface	On